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1 [Space/time-efficient scheduling and execution of parallel irregular computations](#)


Tao Yang, Cong Fu

November 1998 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 20 Issue 6

Publisher: ACM Press

 Full text available: [pdf\(374.95 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this article we investigate the trade-off between time and space efficiency in scheduling and executing parallel irregular computations on distributed-memory machines. We employ acyclic task dependence graphs to model irregular parallelism with mixed granularity, and we use direct remote memory access to support fast communication. We propose new scheduling techniques and a run-time active memory management scheme to improve memory utilization while retaining good time efficiency, and we ...

Keywords: DAG scheduling, direct remote memory access, irregular parallelism, run-time support

2 [Scheduling real-time transactions: a performance evaluation](#)


Robert K. Abbott, Hector Garcia-Molina

September 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(2.93 MB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: deadlines, locking protocols, real-time systems

3 [Performance debugging shared memory parallel programs using run-time dependence analysis](#)


Ramakrishnan Rajamony, Alan L. Cox

June 1997 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems, Volume 25 Issue 1

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<u>L19</u>	L18 and (select\$ or determi\$) near4 (functin\$ or method\$ or process\$)	52	<u>L19</u>
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181 [Abstract computing machines](#)

G. R. Sechi

August 1989 ACM SIGMICRO Newsletter , Proceedings of the 22nd annual workshop on Microprogramming and microarchitecture, Volume 20 Issue 3
Publisher: ACM Press , ACM Press

Full text available: [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
182 [The computing program of the Office of Naval Research, 1946-1953](#)

Mina Rees

October 1987 Communications of the ACM, Volume 30 Issue 10
Publisher: ACM Press

Full text available: [pdf\(3.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The Office of Naval Research (ONR) played a vital role in the postwar support of basic research in the sciences at the nation's universities in the years immediately following World War II before the establishment of the National Science Foundation in 1950 and its expanded funding a few years later. Part of ONR's mathematics program was devoted to the support of computers and computing, and this article will report on that aspect of ONR's activities and the related activities at the National ...

183 [The characteristics of digital video and considerations of designing video databases](#)

Chueh-Wei Chang, Keh-Feng Lin, Suh-Yin Lee

December 1995 Proceedings of the fourth international conference on Information and knowledge management
Publisher: ACM Press

Full text available: [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
184 [Formation and simulation: Worm anatomy and model](#)

Dan Ellis

October 2003 Proceedings of the 2003 ACM workshop on Rapid Malcode
Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  pdf(273.58 KB)

terms

We present a general framework for reasoning about network worms and analyzing the potency of worms within a specific network. First, we present a discussion of the life cycle of a worm based on a survey of contemporary worms. We build on that life cycle by developing a relational model that associates worm parameters, attributes of the environment, and the subsequent potency of the worm. We then provide a worm analytic framework that captures the generalized mechanical process a worm goes through ...

Keywords: network modeling, network security, turing machine, worm

185 [Ordered shared locks for real-time databases](#) 

Divyakant Agrawal, Amr El Abbadi, Richard Jeffers, Lijing Lin

January 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(2.11 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

We propose locking protocols for real-time databases. Our approach has two main motivations: First, locking protocols are widely accepted and used in most database systems. Second, in real-time databases it has been shown that the blocking behavior of transactions in locking protocols results in performance degradation. We use a new relationship between locks called ordered sharing to eliminate blocking that arises in the traditional locking protocols. Ordered sharing eliminates blocking of read ...

Keywords: concurrency control, time-critical scheduling, transaction management

186 [Mining specifications](#) 

Glenn Ammons, Rastislav Bodík, James R. Larus

January 2002 **ACM SIGPLAN Notices , Proceedings of the 29th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**, Volume 37 Issue 1

Publisher: ACM Press , ACM Press

Full text available:  pdf(305.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Program verification is a promising approach to improving program quality, because it can search all possible program executions for specific errors. However, the need to formally describe correct behavior or errors is a major barrier to the widespread adoption of program verification, since programmers historically have been reluctant to write formal specifications. Automating the process of formulating specifications would remove a barrier to program verification and enhance its practicality. T ...

187 [A distributed algorithm for dynamic channel allocation](#) 

Azzedine Boukerche, Sungbum Hong, Tom Jacob

April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  pdf(250.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#), [terms](#)

Recent demand for mobile telephone service has been growing rapidly while the electromagnetic spectrum of frequencies allocated for this purpose remains limited. Any solution to the channel assignment problem is subject to this limitation, as well as the interference constraint between adjacent channels in the spectrum. Channel allocation schemes provide a flexible and efficient access to bandwidth in wireless and mobile communication systems. In this paper, we present an efficient distributed ...

Keywords: channel/resource allocation, distributed algorithm, mutual exclusion,

wireless/mobile communications

188 Case study of object-oriented software development

 Dennis de Champeaux, Al Anderson, Ed Feldhousen

October 1992 **ACM SIGPLAN Notices , conference proceedings on Object-oriented programming systems, languages, and applications**, Volume 27 Issue 10

Publisher: ACM Press , ACM Press

Full text available:  pdf(1.71 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

189 A high level simulation model of a networked computer system

William H. Hochstettler, Lawrence L. Rose

January 1980 **Proceedings of the 12th conference on Winter simulation**

Publisher: IEEE Press

Full text available:  pdf(959.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The objective of this research was to design and develop a baseline planning tool for the OCLC networked computer system. This planning tool was necessitated by the dynamic, fast-growing on-line bibliographic needs of OCLC's remote library users. In this paper we show simulation to be the best research approach and justify the IPSS language as appropriate to this application. The resultant model of OCLC's networked computer system is highlighted. This tool was developed in a timely manner t ...

190 GAMS: a framework for the management of scientific software

 Ronald F. Boisvert, Sally E. Howe, David K. Kahaner

December 1985 **ACM Transactions on Mathematical Software (TOMS)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.83 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Guide to Available Mathematical Software (GAMS) provides a framework for both a scientist-end-user and a librarian-maintainer to deal with large quantities of mathematical and statistical software. This framework includes a classification scheme for mathematical and statistical software, a database system to manage information about this software, and both an on-line interactive consulting system and a printed catalog for providing users with access to this information. A description is ...

191 The effectiveness of task-level parallelism for high-level vision

 W. Harvey, D. Kalp, M. Tambe, D. McKeown, A. Newell

February 1990 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN symposium on Principles & practice of parallel programming**, Volume 25 Issue 3

Publisher: ACM Press , ACM Press

Full text available:  pdf(1.78 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Large production systems (rule-based systems) continue to suffer from extremely slow execution which limits their utility in practical applications as well as in research settings. Most investigations in speeding up these systems have focused on match (or knowledge-search) parallelism. Although good speed-ups have been achieved in this process, these investigations have revealed the limitations on the total speed-up available from this source. This limited speed-up is insufficient to alleviate ...

192 Tapping vs. circling selections on pen-based devices: evidence for different performance-shaping factors

 Sachi Mizobuchi, Michiaki Yasumura
April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available:  pdf(340.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Tapping-based selection methods for handheld devices may need to be supplemented with other approaches as increasingly complex tasks are carried out using those devices. Circling selection methods (such as the Lasso) allow users to select objects on a touch screen by circling with a pen. An experimental comparison of the selection time and accuracy between a circling method and a traditional tapping style of selection was carried out. The experiment used a two dimensional grid (varying in terms ...

Keywords: gesture input, handheld devices, input and interaction technologies, pen user interface, target selection

193 The LHAM log-structured history data access method 

Peter Muth, Patrick O'Neil, Achim Pick, Gerhard Weikum

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(494.76 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Numerous applications such as stock market or medical information systems require that both historical and current data be logically integrated into a temporal database. The underlying access method must support different forms of "time-travel" queries, the migration of old record versions onto inexpensive archive media, and high insertion and update rates. This paper presents an access method for transaction-time temporal data, called the log-structured history data access method (L ...

Keywords: Data warehouses, Index structures, Performance, Storage systems, Temporal databases

194 The role of time in information processing: a survey 

 A. Bolour, T. L. Anderson, L. J. Dekeyser, H. K. T. Wong

April 1982 **ACM SIGART Bulletin**, Issue 80

Publisher: ACM Press

Full text available:  pdf(2.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Numerous researchers in a handful of disciplines have been concerned, in recent years, with the special role (or roles) that time seems to play in information processing. Designers of computerized information systems have had to deal with the fact that when an information item becomes outdated, it need not be forgotten. Researchers in artificial intelligence have pointed to the need for a realistic world model to include representations not only for snapshot descriptions of the real world, but a ...

195 Research sessions: P2P and sensor networks: Compressing historical information in 

 sensor networks

Antonios Deligiannakis, Yannis Kotidis, Nick Roussopoulos

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available:  pdf(172.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We are inevitably moving into a realm where small and inexpensive wireless devices

would be seamlessly embedded in the physical world and form a wireless sensor network in order to perform complex monitoring and computational tasks. Such networks pose new challenges in data processing and dissemination because of the limited resources (processing, bandwidth, energy) that such devices possess. In this paper we propose a new technique for compressing multiple streams containing historical data fro ...

196 ISIS: an adaptive, trilingual conversational system with interleaving interaction and delegation dialogs

Helen Meng, P. C. Ching, Shuk Fong Chan, Yee Fong Wong, Cheong Chat Chan
September 2004 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11

Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.71 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

ISIS (Intelligent Speech for Information Systems) is a trilingual spoken dialog system (SDS) for the stocks domain. It handles two dialects of Chinese (Cantonese and Putonghua) as well as English---the predominant languages in our region. The system supports spoken language queries regarding stock market information and simulated personal portfolios. The conversational interface is augmented with a screen display that can capture mouse-clicks as well as textual input by typing or stylus-writing. ...

Keywords: Human-computer spoken language interface, interaction and delegation dialogs

197 The performance implications of thread management alternatives for shared-memory multiprocessors

T. E. Anderson, D. D. Lazowska, H. M. Levy
April 1989 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1989 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 17 Issue 1

Publisher: ACM Press , ACM Press

Full text available: [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Threads ("lightweight" processes) have become a common element of new languages and operating systems. This paper examines the performance implications of several data structure and algorithm alternatives for thread management in shared-memory multiprocessors. Both experimental measurements and analytical model projections are presented. For applications with fine-grained parallelism, small differences in thread management are shown to have significant performance imp ...

198 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: [pdf\(233.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data

dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

199 Rover: a toolkit for mobile information access A. D. Joseph, A. F. de Lespinasse, J. A. Tauber, D. K. Gifford, M. F. Kaashoek December 1995 **ACM SIGOPS Operating Systems Review, Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5**Publisher:** ACM Press , ACM PressFull text available:  [pdf\(2.18 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**200 An explorative journey from architectural tests definition down to code tests execution**

Antonia Bertolino, Paola Inverardi, Henry Muccini

July 2001 **Proceedings of the 23rd International Conference on Software Engineering****Publisher:** IEEE Computer SocietyFull text available:  [pdf\(496.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
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Our research deals with the use of the Software Architecture (SA) as a reference model for the conformance testing of the implemented system with respect to its architectural specification, at the integration test level. Having formerly identified an approach to derive architectural test plans, we investigate here the practical meaning of a high level test case defined in terms of architectural processes and messages, such as the ones derived by our approach. Indeed, establishing a relatio ...

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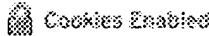
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